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***CHEROKEE COUNTY***



# Shuler Mtn



|   |  |
|---|--|
| Prepared In The Office of:<br><b><i>DIVISION OF HIGHWAYS</i></b><br>191 Robbinsville Rd., Andrews, NC 28901 |  |
| 2012 STANDARD SPECIFICATIONS  |  |
| RIGHT OF WAY DATE:<br>_____   | JESSE A. RUSSELL, P.E.<br>PROJECT ENGINEER |
| LETTING DATE:<br>_____  | ALAN R BROWN<br>PROJECT DESIGN ENGINEER    |

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ *P.E.*

**ROADWAY DESIGN  
ENGINEER**

**SIGNATURE:** \_\_\_\_\_ *P.E.*

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

INDEX OF SHEETS

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1A

1B

2A
- TITLE SHEET

INDEX OF SHEETS, GENERAL  
NOTES AND LIST OF STANDARDS

CONVENTIONAL SYMBOLS

TYPICAL SECTIONS

GENERAL NOTES

- GENERAL NOTES:

2012 SPECIFICATIONS  
EFFECTIVE: 01-17-2012
- 1

2
- CARE SHALL BE TAKEN TO PREVENT DAMAGE TO  
EXISTING UTILITIES DURING CONSTRUCTION. ANY  
DAMAGE TO THESE UTILITIES SHALL BE REPAIRED  
AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL MAINTAIN THE SITE IN A  
MANNER SO THAT WORKMEN AND PUBLIC SHALL BE  
PROTECTED FROM INJURY.

LIST OF ROADWAY  
STANDARDS

- 2012 ROADWAY STANDARD DRAWINGS
- The following Roadway Standards as appear in "Roadway  
Standard Drawings" - Highway Design Branch - N.C.  
Department of Transportation - Raleigh, N.C., dated  
January 17, 2012 and the latest revision thereto are  
applicable to this project and by reference hereby are  
considered a part of these plans.
- STD. NO.

TITLE
- DIVISION 2 - EARTHWORK

225.02 Guide for Grading Subgrade

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01 Method of Shoulder Construction

DIVISION 6 - ASPHALT BASES AND PAVEMENTS

654.01 Pavement Repairs

DIVISION 7 -CONCRETE PAVEMENT AND SHOULDERS

700.05 TYING PROPOSED PAVEMENT TO EXISTING PAVEMENTS

DIVISION 11- WORK ZONE TRAFFIC CONTROL

1101.01 Detail Drawing for Two Way Undivided Work Zone Warning Signs

1101.02 Temporary Lane Closures

DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION

1205.01 Line Types and Offsets

12/05/11

**Note: Not to Scale**  
**\*S.U.E. = Subsurface Utility Engineering**

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

|  |  |
|--|--|
| State Line                                 |  |
| County Line                                |  |
| Township Line                              |  |
| City Line                                  |  |
| Reservation Line                           |  |
| Property Line                              |  |
| Existing Iron Pin                          |  |
| Property Corner                            |  |
| Property Monument                          |  |
| Parcel/Sequence Number                     |  |
| Existing Fence Line                        |  |
| Proposed Woven Wire Fence                  |  |
| Proposed Chain Link Fence                  |  |
| Proposed Barbed Wire Fence                 |  |
| Existing Wetland Boundary                  |  |
| Proposed Wetland Boundary                  |  |
| Existing Endangered Animal Boundary        |  |
| Existing Endangered Plant Boundary         |  |
| Known Soil Contamination: Area or Site     |  |
| Potential Soil Contamination: Area or Site |  |

BUILDINGS AND OTHER CULTURE:

|                               |  |
|-------------------------------|--|
| Gas Pump Vent or U/G Tank Cap |  |
| Sign                          |  |
| Well                          |  |
| Small Mine                    |  |
| Foundation                    |  |
| Area Outline                  |  |
| Cemetery                      |  |
| Building                      |  |
| School                        |  |
| Church                        |  |
| Dam                           |  |

HYDROLOGY:

|                                    |  |
|------------------------------------|--|
| Stream or Body of Water            |  |
| Hydro, Pool or Reservoir           |  |
| Jurisdictional Stream              |  |
| Buffer Zone 1                      |  |
| Buffer Zone 2                      |  |
| Flow Arrow                         |  |
| Disappearing Stream                |  |
| Spring                             |  |
| Wetland                            |  |
| Proposed Lateral, Tail, Head Ditch |  |
| False Sump                         |  |

RAILROADS:

|                    |  |
|--------------------|--|
| Standard Gauge     |  |
| RR Signal Milepost |  |
| Switch             |  |
| RR Abandoned       |  |
| RR Dismantled      |  |

RIGHT OF WAY:

|  |  |
|--|--|
| Baseline Control Point   |  |
| Existing Right of Way Marker                                   |  |
| Existing Right of Way Line                                     |  |
| Proposed Right of Way Line                                     |  |
| Proposed Right of Way Line with Iron Pin and Cap Marker        |  |
| Proposed Right of Way Line with Concrete or Granite R/W Marker |  |
| Proposed Control of Access Line with Concrete C/A Marker       |  |
| Existing Control of Access                                     |  |
| Proposed Control of Access                                     |  |
| Existing Easement Line   |  |
| Proposed Temporary Construction Easement                       |  |
| Proposed Temporary Drainage Easement                           |  |
| Proposed Permanent Drainage Easement                           |  |
| Proposed Permanent Drainage / Utility Easement                 |  |
| Proposed Permanent Utility Easement                            |  |
| Proposed Temporary Utility Easement                            |  |
| Proposed Aerial Utility Easement                               |  |
| Proposed Permanent Easement with Iron Pin and Cap Marker       |  |

ROADS AND RELATED FEATURES:

|                            |  |
|----------------------------|--|
| Existing Edge of Pavement  |  |
| Existing Curb              |  |
| Proposed Slope Stakes Cut  |  |
| Proposed Slope Stakes Fill |  |
| Proposed Curb Ramp         |  |
| Existing Metal Guardrail   |  |
| Proposed Guardrail         |  |
| Existing Cable Guiderail   |  |
| Proposed Cable Guiderail   |  |
| Equality Symbol            |  |
| Pavement Removal           |  |
| Single Tree                |  |
| Single Shrub               |  |
| Hedge                      |  |
| Woods Line                 |  |

VEGETATION:

|          |  |
|----------|--|
| Orchard  |  |
| Vineyard |  |

EXISTING STRUCTURES:

|  |  |
|--|--|
| MAJOR:                                   |  |
| Bridge, Tunnel or Box Culvert            |  |
| Bridge Wing Wall, Head Wall and End Wall |  |
| MINOR:                                   |  |
| Head and End Wall                        |  |
| Pipe Culvert                             |  |
| Footbridge                               |  |
| Drainage Box: Catch Basin, DI or JB      |  |
| Paved Ditch Gutter                       |  |
| Storm Sewer Manhole                      |  |
| Storm Sewer                              |  |

UTILITIES:

|                                     |  |
|-------------------------------------|--|
| POWER:                              |  |
| Existing Power Pole                 |  |
| Proposed Power Pole                 |  |
| Existing Joint Use Pole             |  |
| Proposed Joint Use Pole             |  |
| Power Manhole                       |  |
| Power Line Tower                    |  |
| Power Transformer                   |  |
| U/G Power Cable Hand Hole           |  |
| H-Frame Pole                        |  |
| Recorded U/G Power Line             |  |
| Designated U/G Power Line (S.U.E.*) |  |

TELEPHONE:

|   |  |
|---|--|
| Existing Telephone Pole                     |  |
| Proposed Telephone Pole                     |  |
| Telephone Manhole                           |  |
| Telephone Booth                             |  |
| Telephone Pedestal                          |  |
| Telephone Cell Tower                        |  |
| U/G Telephone Cable Hand Hole               |  |
| Recorded U/G Telephone Cable                |  |
| Designated U/G Telephone Cable (S.U.E.*)    |  |
| Recorded U/G Telephone Conduit              |  |
| Designated U/G Telephone Conduit (S.U.E.*)  |  |
| Recorded U/G Fiber Optics Cable             |  |
| Designated U/G Fiber Optics Cable (S.U.E.*) |  |

WATER:

|                                     |  |
|-------------------------------------|--|
| Water Manhole                       |  |
| Water Meter                         |  |
| Water Valve                         |  |
| Water Hydrant                       |  |
| Recorded U/G Water Line             |  |
| Designated U/G Water Line (S.U.E.*) |  |
| Above Ground Water Line             |  |

TV:

|  |  |
|--|--|
| TV Satellite Dish                          |  |
| TV Pedestal                                |  |
| TV Tower                                   |  |
| U/G TV Cable Hand Hole                     |  |
| Recorded U/G TV Cable                      |  |
| Designated U/G TV Cable (S.U.E.*)          |  |
| Recorded U/G Fiber Optic Cable             |  |
| Designated U/G Fiber Optic Cable (S.U.E.*) |  |

GAS:

|                                   |  |
|-----------------------------------|--|
| Gas Valve                         |  |
| Gas Meter                         |  |
| Recorded U/G Gas Line             |  |
| Designated U/G Gas Line (S.U.E.*) |  |
| Above Ground Gas Line             |  |

SANITARY SEWER:

|  |  |
|--|--|
| Sanitary Sewer Manhole                   |  |
| Sanitary Sewer Cleanout                  |  |
| U/G Sanitary Sewer Line                  |  |
| Above Ground Sanitary Sewer              |  |
| Recorded SS Forced Main Line             |  |
| Designated SS Forced Main Line (S.U.E.*) |  |

MISCELLANEOUS:

|  |  |
|--|--|
| Utility Pole                           |  |
| Utility Pole with Base                 |  |
| Utility Located Object                 |  |
| Utility Traffic Signal Box             |  |
| Utility Unknown U/G Line               |  |
| U/G Tank; Water, Gas, Oil              |  |
| Underground Storage Tank, Approx. Loc. |  |
| A/G Tank; Water, Gas, Oil              |  |
| Geoenvironmental Boring                |  |
| U/G Test Hole (S.U.E.*)                |  |
| Abandoned According to Utility Records |  |
| End of Information                     |  |

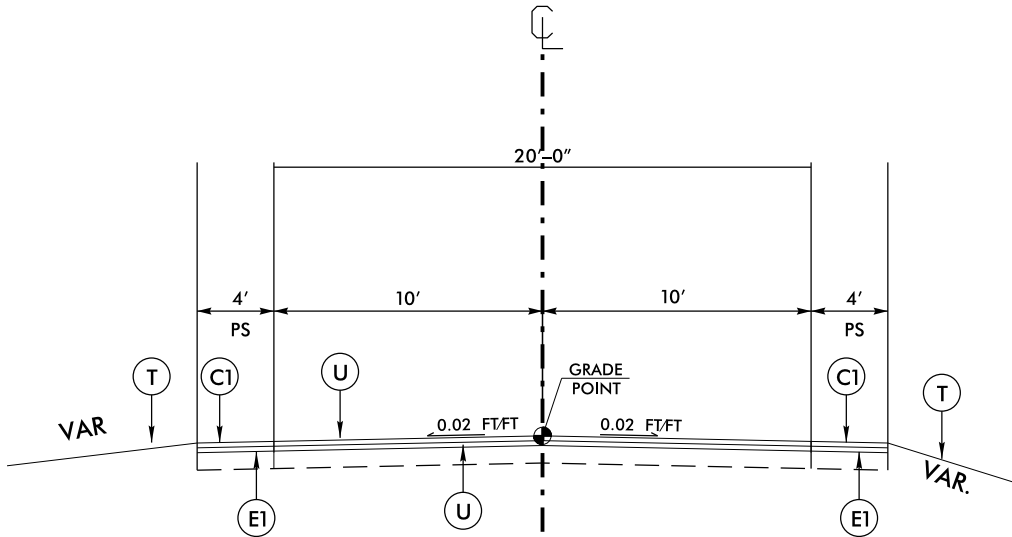
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12-SEP-2016 08:33  
S:\Dist3\Cherokee\DN00530\_Paved Shoulders on NC 294.dgn\DN00530\_Paved Shoulders on NC 294.dgn  
Reviewed At 11/14/2016

|                         |           |
|-------------------------|-----------|
| PROJECT REFERENCE NO.   | SHEET NO. |
| WBS*: 38068.3.2         | 2A        |
| ROADWAY DESIGN ENGINEER |           |

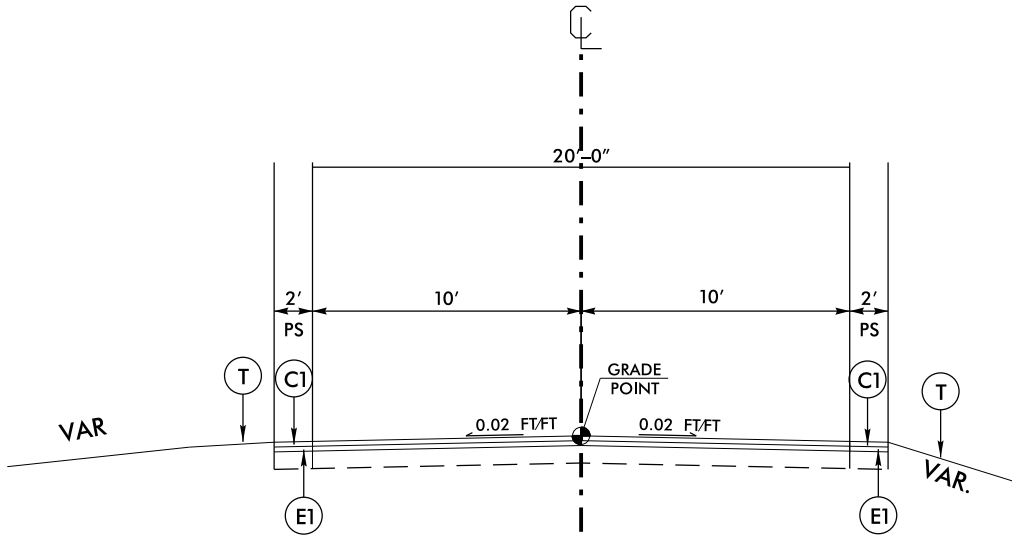
| PAVEMENT SCHEDULE       |   |    |   |
|-------------------------|---|----|---|
| (FINAL PAVEMENT DESIGN) |   |    |   |
| C1                      | PROP. APPROX. 2" ASPHALT CONCRETE<br>SURFACE COURSE, TYPE S9.5B AT AN<br>AVGERAGE RATE OF 224 lbs/sy. | E1 | PROP.APPROX. 4" ASPHALT CONCRETE<br>BASE COURSE TYPE B25.0B AT AN<br>AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| U                       | EXISTING ASPHALT  | T  | SHOULDER RECONSTRUCTION   |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



TYPICAL SECTION NO. 1

- L- Sta 10+00 TO Sta 16+50
- L- Sta 25+00 TO Sta 56+00
- L- Sta 59+00 TO Sta 102+00



TYPICAL SECTION NO. 2

- L- Sta 16+50 TO Sta 25+00

NOTE: STA 56+00 TO 59+00  
GOES THRU EXISTING BRIDGE